

1974

Graduate council Curricular Report #1973-74--7

University of Rhode Island Faculty Senate

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Serial Number 73-74--24
UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

RECEIVED
UNIVERSITY OF R. I.

MAR 5 1974

OFFICE OF THE PRESIDENT

TO: Acting President Ferrante

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled Graduate Council Curricular Report
#1973-74--7

is forwarded for your consideration.

2. The original and two copies for your use are included.
3. This BILL was adopted by vote of the Faculty Senate on 2/28/74
(date)
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Regents, completing the appropriate endorsement below.
5. In accordance with Section 8, paragraph 2 of the Senate's By-Laws, this bill will become effective on 3/21/74 (date), three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; (3) you forward it to the Board of Regents for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Regents, it will not become effective until approved by the Board.

3/1/74
(date)

Maury Klein /s/
Chairman of the Faculty Senate
Maury Klein

ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned.
2. Approved ✓ Disapproved _____
3. (If approved) In my opinion, transmittal to the Board of Regents is not necessary.

3/20/74
(date)

Wm R Ferrante /s/
President

(OVER)

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Regents.

FROM: The University President

1. Forwarded.

2. Approved.

_____/s/
(date) President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Regents, via the University President.

1. Forwarded.

_____/s/
(date) _____
(Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

1. Forwarded from the Chairman of the Board of Regents.

_____/s/
(date) President

Original received and forwarded to the Secretary of the Senate and Registrar for filing in the Archives of the University.

_____/s/
(date) Chairman of the Faculty Senate

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE
Report No. 1973-74-7

At its Meeting No. 121 on February 15, 1974 the Graduate Council considered and approved (where necessary) the following curricular matters which are now submitted to the Faculty Senate for information or confirmation as indicated.

I. Matters of Information. (For further details, consult the chairman of the department concerned.)

A. College of Home Economics

1. Department of Home Economics Education

a. Experimental Course

EDC 909X New Directions for Home Economics Teaching: Human Ecology
and Environment 7/1-7/12, 3

This course is designed to develop an awareness of environment and ecological concepts. These concepts will be related to all areas of Home Economics. Teachers will have an opportunity to develop individual projects for their teaching level, applying environmental education to Home Economics.

B. College of Arts & Sciences

1. Department of Theatre

a. Experimental Course

THE(EDC) 404X Improvisation and Theatre Games for the
English Teacher SS I, 3

A long-term workshop/lab designed for secondary level English teachers to help them introduce experiential learning techniques into their curricula. The activities will consist of actor-training and rehearsal techniques adapted to teach language arts, composition, drama, poetry, the novel and the short story. Time will be spent in developing specific activities for the participants' particular needs. (Lab 12) Prerequisite: The course enrollment is limited to in-service teachers and graduate students planning teaching careers. Staff of the American Shakespeare Theatre in association with URI theatre staff.

THE(EDC) 406X Improvisation and Theatre Games in Education
SS I, 3

An exploration of experiential learning in all subject areas at all levels of development, using theatre-originated activities as the basic methodology. Emphasis will be placed upon the participants' experiences in building a community of learning, developing concentration skills and increasing both imagination and awareness. The objective will be to give educators both tools and understanding to develop learning activities for their students. (Lab 12) Prerequisite: The course enrollment is limited to in-service teachers and graduate students planning teaching careers. Staff of the American Shakespeare Theatre in association with URI theatre staff.

- E. College of Home Economics
 - 1. Department of Home Economics Education
 - a. Change

EDC 491 Home Economics Education-Teaching Adults - change from 2 to 3 credits

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C. College of Home Economics

1. Department of Food & Nutritional Science

a. Experimental Course

FNS 542X Minerals and Vitamins II, 3

Recent research in minerals and vitamins as related to human nutrition. Discusses the interrelationship between minerals, vitamins and other nutrients as they relate to nutrition status. (Lec 3) Prerequisites: FNS 441 or Permission of Department. Caldwell and Bergan

D. College of Resource Development

1. Department of Fisheries and Marine Technology

a. Experimental Course

FMT 591, 592X Special Problems I and II, 1-6 each

Advanced level work, under the supervision of a staff member, arranged to suit individual needs of students in various fields of Fisheries & Marine Technology. (Lec and/or Lab according to nature of the problem.) Prerequisite: Permission of department. Staff

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II. Matters Requiring Confirmation by the Faculty Senate.

A. College of Engineering

1. Department of Ocean Engineering

a. Add (New)

OCE 560(ELE 560) Introduction to Data Collection Systems I, 3
Practical problems of data collection. Probes and sensors, interfaces, signal conditioning, and storage. Examples found among the current research areas within Ocean Engineering will be emphasized. (Lec 3) Prerequisite: Graduate standing in engineering or permission of instructor. Haas

2. Department of Electrical Engineering

a. Add (New)

ELE (EST) 584 Pattern Recognition II, 3
Random variables, vectors, transformations, hypothesis testing and errors. Classifier design: linear, nonparametric, approximation procedures. Feature selection/extraction: dimensionality reduction, linear and nonlinear mappings, clustering and unsupervised classification. (Lec 3) Prerequisite: ELE 509 and CSC 410 or introductory probability and statistics, knowledge of computer programming. Kelley

ELE (CSC)582 Robotics I or II, 3
Description, design and control of industrial and research robots. Tactual and visual sensing systems. Computer control of manipulators. Object descriptions for manipulation. Obstacle avoidance. Applications. (Lec 3) Prerequisite: knowledge of matrix algebra and Laplace transforms or permission of instructor. Birk

B. College of Business Administration

1. Department of Accounting

a. Add (New)

ACC 662 Advanced Auditing II, 3
Statements on auditing standards, auditing electronic systems, auditor's reports, statistical sampling in auditing, regulations of SEC, and cases in auditing. (Lec 3) Prerequisite: MGS 581, ACC 461. Staff

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C. College of Arts & Sciences
1. Department of Geography
a. Add (New)

GEG 405 Introduction to Synoptic Meteorology and Climatology I, 3
Theoretical and practical approaches to the forecasting problem.
(Lec 3) Prerequisite: GEG 403 or equivalent. Havens

GEG 406 Microclimatology II, 3
The climate near the ground, stressing material appropriate to the
backgrounds of the students enrolled in the course. (Lec 3) Pre-
requisite: GEG 403 or equivalent. In alternate years, next offered
1974-75. Havens

GEG 447 Southeast Asia and Oceania II, 3
Regional analysis of Southeast Asia and the Pacific Islands. Focus
on geographic aspects of the Pacific Ocean basin, physical char-
acteristics, island ecosystems, discovery and exploitation, economic
and cultural diversity. (Lec 3) Prerequisite: One GEG 100-level course
or permission of department. In alternate years, next offered
1974-75. Krausse

GEG 481 History and Philosophy of Geography I, 3
History of geographic thought from early Greek writings to the present;
survey of major contributors and contributions. Major philosophical
themes in the recent past and philosophical issues in modern geography.
(Lec 3) Prerequisite: One GEG 100-level course or permission of depart-
ment. In alternate years, next offered 1975-76. Capelle

GEG 482 Quantitative Methods in Geography I, 3
Introduction to the application of descriptive and inferential
statistics in geographic research. The geographer's use of
techniques up to and including simple regression and correlation,
using examples from geographic journals. (Lec 3) Prerequisite: EST
220 or preferably EST 408 (or its equivalent) and one GEG 100 level
course; permission of the department. In alternate years, next
offered 1974-75. Capelle

GEG 499 Directed Study I and II, 1-3 each
Individual research and reports on problems of special interest,
including honors thesis research. Prerequisite: acceptance of a
project by a member of the staff and departmental approval. Not for
graduate credit. Staff

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b. Deletion

GEG 407: Selected Topics in Meteorology
GEG 445: Geography of Modernization in Africa
GEG 463: Geography of World Resources
GEG 544: Historical Geography of the United States

c. Changes

GEG 412 Number, semester and offering change to -
GEG 512(412) Seminar in Urban Geography I, 3; Lec 3,
Prerequisite: GEG 100 or permission of department. In
alternate years, next offered 1975-76, Higbee

GEG 451 Number and offering change to -
GEG 551(451) Land Utilization I, 3; (Lec 3); Prerequisite:
ESC 104. In alternate years, next offered 1974-75; Higbee

GEG 404 Description and staff listing changed to -
GEG 404 Meteorology and Climatology II II, 3
Continuation of GEG 403, with emphasis on applied aspects
of meteorology and climatology. (Lec 3) Prerequisite: GEG 403.
Havens.

GEG 421 Description and staff listing changed to -
GEG 421 Introductory Cartography I, 3
Principles and methods of map design and construction
for geographic analysis. Emphasis is given to compilation,
generalizations, scaling and symbolizing quantitative and
qualitative data. (Lec 2, Lab 1) Krausse

GEG 422 Description and staff listing changed to -
GEG 422 Advanced Cartography II, 3
Advanced map construction, preparation of graphs and
diagrams, and a final individual project. Applications of
aerial photographs and other forms of imagery. Terrain
representation models. (Lec 2, Lab 2) Prerequisite: GEG
421 or permission of department. Krausse

GEG 441 Prerequisite, time, staff, alternate year listing changed to -
GEG 441 Geography of Europe II, 3
(Lec 3) Prerequisite: One GEG 100-level course or permission
of department. In alternate years, next offered 1975-6. Krausse

GEG 443 Prerequisite, time, staff, alternate year listing changed to -
GEG 443 Geography of United States and Canada II, 3
(Lec 3) Prerequisite: GEG 100 or permission of department.
In alternate years, next offered 1974-75. Higbee

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GEG 446 Prerequisite, time, staff, alternate year listing changed to-
GEG 446 Geography of the Polar Regions II, 3
Prerequisite: Permission of department. In alternate years,
next offered 1975-76. Havens

GEG 452 Prerequisite, time, staff, alternate year listing changed to-
GEG 452 Transportation Geography II, 3
(Lec 3) Prerequisite: One 100-level geography course or permission
of department. In alternate years, next offered 1974-75. Capelle

GEG 502 Prerequisite, time, staff changed to -
GEG 502 Research Methods in Geography I, 3
(Lec 3) Prerequisite: GEG 482 or permission of department. Capelle

GEG 542 Prerequisite, time, staff, alternate year listing changed to-
GEG 542 Seminar in Economic Geography II, 3
(Lec 3) Prerequisite: One 100-level geography course or permission
of department. In alternate years, next offered 1975-76. Capelle

GEG 543 Prerequisite, time, staff, alternate year listing changed to-
GEG 543 Geography of Megalopolis II, 3
(Lec 3) Prerequisite: GEG 443 or permission of department.
In alternate years, next offered 1975-76. Higbee

2. Department of Microbiology and Biophysics
a. Add (New)

BPH 403 Introduction to Electron Microscopy I, 2
Survey of techniques on electron microscopy. Discussion of
advantages and limitations. Thin sectioning; negative staining;
shadow-casting; freezing-etching; histochemical procedures;
autoradiography; darkroom procedures; scanning electron
microscopy; interpretation of electron micrographs. (Lec 2).
Prerequisite: Permission of department. Fisher & Hufnagel

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BPH 405 Electron Microscopy Laboratory I, 2

An introduction to the practical aspects of electron microscopy. Emphasis will be placed on acquisition of the following skills: Tissue preparation, ultramicrotomy, operation of the electron microscope and darkroom procedures. (Lab 6) Prerequisite: Prior or concurrent enrollment in BPH 403. Hufnagel

BPH 622 Advanced Electron Microscopy II, 2

The physical functioning of electron microscopes; high resolution microscopy of macro-molecules; newly available EM histochemical procedures; and computer processing of electron images. (Lec 2) Prerequisite: BPH 403, 405 or permission of the department. Hufnagel

BPH 624 Advanced Electron Microscopy Laboratory II, 2

Cleaning and aligning the electron microscope; development of independent projects utilizing advanced techniques; and formal presentation of results of individual projects to the class. (Lab 6) Prerequisite: Prior or concurrent registration in BPH 622 or permission of the department. Hufnagel

b. Deletion

BPH 621 Electron Microscopy (contingent upon approval of BPH 403, 405, 622, 624)